## Claims

- A method of enhancing resistance to a plant pathogen in a plant, said method comprising:

   (a) providing a transgenic plant cell that expresses an isolated DNA molecule encoding a kinase domain of a MAPKK polypeptide; and
   (b) regenerating a plant from said plant cell wherein said isolated DNA molecule
- (b) regenerating a plant from said plant cell wherein said isolated DNA molecule is expressed in said plant, and wherein said plant has enhanced resistance to a plant pathogen compared to a corresponding untransformed plant.
  - 2. The method of claim 1, wherein said plant is a dicot.
  - 3. The method of claim 2, wherein said dicot is a crucifer.
- 4. The method of claim 3, wherein said crucifer is Arabidopsis.
  - 5. The method of claim 1, wherein said plant is a monocot.
  - 6. The method of claim 1, wherein said kinase domain is constitutively active.
  - 7. The method of claim 1, wherein said MAPKK polypeptide is MKK4.
  - 8. The method of claim 1, wherein said MAPKK polypeptide is MKK5.
- 9. The method of claim 1, wherein said MAPKK polypeptide activates a gene involved in pathogen defense.
  - 10. The method of claim 1, wherein said MAPKK polypeptide activates the PAL1, GST1, WRKY29, or PR1 gene promoters.

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- 11. A method of enhancing resistance to a plant pathogen in a plant, said method comprising:
- (a) providing a plant cell that expresses an isolated DNA molecule encoding a kinase domain of a MAPKKK polypeptide; and
- 5 (b) regenerating a plant from said plant cell wherein said isolated DNA molecule is expressed in said plant, and wherein said plant has enhanced resistance to a plant pathogen compared to a corresponding untransformed plant.
  - 12. The method of claim 11, wherein said plant is a dicot.
  - 13. The method of claim 12, wherein said dicot is a crucifer.
  - 14. The method of claim 13, wherein said crucifer is Arabidopsis.
- 15. The method of claim 11, wherein said plant is a monocot.

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- 16. The method of claim 11, wherein said kinase domain is constitutively active.
- 17. The method of claim 11, wherein said MAPKKK polypeptide is MEKK1.
- 18. The method of claim 11, wherein said MAPKKK polypeptide is ANP1.
- 19. The method of claim 11, wherein said MAPKKK polypeptide activates a gene involved in pathogen defense.
- 20. The method of claim 11, wherein said MAPKKK polypeptide activates the PAL1, GST1, WRKY29, or PR1 gene promoters.
- 21. A method of enhancing resistance to a plant pathogen in a plant, said method comprising the steps of:

- (a) providing a plant cell that expresses an isolated DNA molecule encoding a polypeptide comprising a polypeptide having substantial identity to a WRKY polypeptide; and
- (b) regenerating a plant from said plant cell wherein said isolated DNA molecule
   is expressed in said plant, and wherein said plant has enhanced resistance to a plant pathogen compared to a corresponding untransformed plant.
  - 22. The method of claim 21, wherein said plant is a dicot.
- 10 23. The method of claim 22, wherein said dicot is a crucifer.
  - 24. The method of claim 23, wherein said crucifer is Arabidopsis.
  - 25. The method of claim 21, wherein said plant is a monocot.

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- 26. The method of claim 21, wherein said WRKY polypeptide induces its own expression.
- 27. An isolated nucleic acid molecule having a nucleotide sequence for a promoter that is capable of initiating pathogen- inducible transcription in a plant cell, wherein said nucleotide sequence is selected from the group consisting of:
  - a) a nucleotide sequence comprising the sequence set forth in Figures 15 or 16;
- b) a nucleotide sequence comprising at least 40 contiguous nucleotides of the sequence set forth in Figures 15 or 16; and
- c) a nucleotide sequence that has at least about 70% sequence identity to a sequence set forth in a) or b).
  - 28. A DNA construct comprising a nucleotide sequence of claim 27 operably linked to a heterologous nucleotide sequence of interest.

- 29. A vector comprising the DNA construct of claim 27.
- 30. A host cell having stably incorporated in its genome the DNA construct of claim 27.

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- 31. A method for expressing a heterologous nucleotide sequence in a plant, said method comprising transforming a plant cell with a DNA construct comprising said heterologous nucleotide sequence operably linked to a promoter that is capable of initiating transcription in a plant cell and regenerating a stably transformed plant from said plant cell, wherein said promoter comprises a nucleotide sequence selected from the group consisting of:
  - a) a nucleotide sequence comprising the sequence set forth in Figures 15 or 16;
- b) a nucleotide sequence comprising at least 40 contiguous nucleotides of the sequence set forth in Figures 15 or 16; and
- c) a nucleotide sequence that has at least about 70% sequence identity to a sequence set forth in a) or b).
  - 32. The method of claim 31, wherein said plant is a dicot.
- 20 33. The method of claim 32, wherein said dicot is a crucifer.
  - 34. The method of claim 33, wherein said crucifer is Arabidopsis.
  - 35. The method of claim 31, wherein said plant is a monocot.

- 36. A plant cell stably transformed with a DNA construct comprising a heterologous nucleotide sequence operably linked to a promoter that is capable of initiating transcription in said plant cell, wherein said promoter comprises a nucleotide sequence selected from the group consisting of:
- a) a nucleotide sequence comprising the sequence set forth in Figures 15 or 16;

- b) a nucleotide sequence comprising at least 40 contiguous nucleotides of the sequence set forth in Figures 15 or 16; and
- c) a nucleotide sequence that has at least about 70% sequence identity to a sequence set forth in a) or b).
  - 37 The plant of claim 36, wherein said plant is a dicot.

- 38. The plant of claim 37, wherein said dicot is a crucifer.
- 10 39. The plant of claim 28, wherein said crucifer is *Arabidopsis*.
  - 40. The plant of claim 36, wherein said plant is a monocot.